Practical Work 01

Exercise 01

- Write a module to declare an integer variable and a pointer to it. Print the value of the variable using the pointer.
- Write a module to demonstrate the use of a pointer to a function. Create a function to add two numbers and call it using a function pointer.
- Write a module to demonstrate pointer arithmetic (e.g., incrementing and decrementing pointers).
- Write a module to declare a pointer to a pointer and access the value of the original variable.
- Write a module to swap the values of two variables using pointers.
- Write a module to access elements of an array using pointers.
- Write a module to declare a pointer to a pointer to a pointer and access the value of the original variable.

Exercise 02

- Write a program to reverse a string (array of char) using pointers.

Exercise 03

- Write a program to dynamically allocate memory for an array using malloc() and access its elements using pointers.

Exercise 04

- Write a module to access elements of a 2D array using pointers.
- Write a program to perform matrix addition and multiplication using pointers.

Exercice 05

- Write a program to create a function that returns a pointer to an integer.